

Sup
end
C2
Cmld

a magnetic rotor having at least one pole positioned to induce a magnetic field in each MEMS relay when passing by the relay.

REMARKS

Claims 1-6 are pending. Claims 1 and 6 have been amended. No new matter has been added. Reconsideration and allowance of the above-referenced application are respectfully requested.

Claims 1-3 and 6 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Brailsford '068, in view of Posey '523, and further in view of Bornand '614. Claims 4 and 5 also stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Brailsford '068, in view of Posey '523, and further over Bornand '614, in view of Tanikoshi '780. These rejections are respectfully traversed.

Claims 1 and 6, as amended, recite a MEMS relay having a magnetic actuation plate or a spring beam that is formed with permalloy material to provide high plating capability. "A soft magnetic material such as permalloy has a high saturation magnetization (M_s greater than 0.8 Tesla), has thick plating capability, and automatically magnetizes with the desired magnetization orientation when actuated. Therefore, materials such as permalloy can be advantageous for constructing the magnetic actuation plates." (see page 11, lines 6-11). For example, "[f]orces in excess of 5 mN are easily obtained with a

permalloy actuation plate having a width of 3 mm and a thickness of 10 μ m in a DC motor that produces a magnetic field strength of approximately 2500 gauss." (see page 11, lines 11-14).

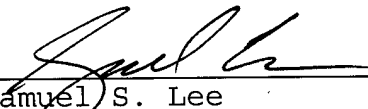
The cited references (i.e. Brailsford, Posey, Bornand, and Tanikoshi), alone or in combination, fail to teach or suggest using permalloy material to form a magnetic actuation plate or a spring beam.

Accordingly, in view of the above amendments and remarks, all of the pending claims should be in condition for allowance. A formal notice to that effect is respectfully solicited.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 1-8-01



Samuel S. Lee
Reg. No. 42,791

Fish & Richardson P.C.
PTO Customer No. 20985
4350 La Jolla Village Drive, Suite 500
San Diego, CA 92122
Telephone: (858) 678-5070
Facsimile: (858) 678-5099

10063073.doc